

Abstract of the Disclosure

Methods and apparatus for treating a gas-liquid feed stream with structured monolithic catalysts of honeycomb configuration wherein the catalysts are configured as a  
5 stack of honeycomb sections with offset channels, the resulting channel dislocations between adjacent contacting honeycombs in the stack introducing controlled, limited turbulence and mixing of feed stream portions traversing the channels to significantly increase the catalytic  
10 efficiency of the reactor.